New york Dec 21,2863 Dem Doch Bruy. I have got Mrough with my California grasses cent an about to send off mine outs (joho) but here is a little tatigh cus-Tower which I don't nature out, 2h grew in front of a Chinese lune home and is undouttetly of celestral origiv. It wont tett its name to Dr. Lovey no myself- you will probably recognize it a crow muchly. - Be as joyous as you please, only tell me its name. also, please

San Francisco Aug 16. 65. Sr. A Gray Cambridge Mels. Meg dead Sis, Jour favor of May 3 to has been duly received. In looking over Trop Thurber's names of my grafses, I fell the ne cefsity of malling some remarks in regard to his determination. As get I have not received an answer respecting Them. My object being to aprist in the understanding of balif plants I thought it well to delay the lists untill they are satisfactorily disposed of. Some line ago I sent a set of the Summe Fragses on request to fir the floother who wrote to me since That he submitted them to Cal. Mours and would let me thous as soon as

possible his opinions about their. If then you have no objection of Thell wait untill These of both Iri Musher. Sometimes ago Sent you two Small parcelo of Leads of the A. Llephons pluglia. I hope they have safely arrived. As it is heighty desirable for me to passes you various esteles on and revisions of Am. Genera I would like to propose to you an exchange. As your habarium may not get be supplied with good feerfeel specimens of Calif. Cryptogamie plants, especiale, The new mofses and Lichens discover ed by me, I would like to funish Then for you in large thown Specimens for the publications above Since I was made Curator of Botomy by our Readem it becomes a necessity to study up the phaner gannie plants in our kertarium.

Un the 30 th of East months made a trip esqueially for for-Euring the fruit of Sietheringio montans, but it was too early. Some had just began forming the Todo and other were just in bloom. At the close of this month I will be after them again. Dr. Forrey is now at leese Kion Nevada. Since it is doubtful that I get any help from the Lurvey to visit the Suras, I shall go on my own expenses to Eureks, provided I can go overland. There is a good trail used by the mail carrisos, but visited by hostile Indiano. it may be however that all is right by the 15h of nest mouth. With due regards very touly Houn M. Bolander

When ever any thing is due to me of the many for the grapes you would ablige me very much ly Lending it to B. Westermann & Go. 440 Broadway as I intend to buy a hotonical work for it. Mours most respectantly Henry A. Bolandes

San Francis co Sept. 65. Trop. Sr. A. Grag Cambridge Jear Sir, Jour favar of fulz 26 has been duly received. Jamorn of having delayed the return of the listo, but all was done with the heat intentions, explained in my last. But since Trop. Thurber is a very slow error. for dent, I shall copy Them and Lend then on with the next stea-Those deed were those of Arabis llephan plylla callected en the Stiffion Wills were this Dr. Town will correct him self my statement in vegend to him self.

whose subtratum is a he et of fine pebbles strongly comented and but slightly everice with a gellowish dust and Land. This track is almost perfectly level, rather slightly depressed in the centre and here and their dispected by runs, bordered by Kedresars. Upon This I foundax most peculias combination of our flora.

1) Pinus contorta (?) 2. Junis muricato? (a Strongly marked on 3. Castanea skrysophylla 40-60 fe. h. 2-3 dia, in full blofsom on the 23/9 63. 4. Arbutus Menziesia 6. Myrica Californica 6. Arctoo tapleglos lomentoso a pungens 7. Vaccinium avatum another 8. Tralma 9. Phodo den dron 11. Gaul Theris Shallow. 11. Cuprefaus (?) Around the Shrubs in depressions freenlear mosses, a Gentians and the above mentioned balanagovatio also. Ano their coarde rough grafs apparents a Carex yerears over the dryest parts. The settlers know this track under The name plains!

San Francisco Cet 20 1865.

Sr. A. Gray. Cambridge Mass.

Dear Sir, Jour favor of Sept.

11 and is note of earlier date in Prof. Brewer's letter have been duly received. The lists of grafses will have reached you ere This. I feel really sorry for having delaged the matter to long, but it was done with the best of intentions. With the greatest pleasure shall I Lend you plants, Leeds, somes , whatever may be of interest. The collection of comes just made in Mando eino and Monterey Go. will just enable me to Lend you fine comes of 4-5 different thecies. I am just now filling a lox for Dr. Engelmann. It was especially in lies interest that I spent a week at Abouting. I have satisfied myself that there are no more but time years of prices ness That place. Juis insignes & muricato.

The characters of the former especially are Lo strinkingly constant that it is quite Eurious to me how that pine could get Is many oranes. It is true, there are in a few rare cases two difficul looking ernes on the same tree which may by ensidering then individually give rise to Syronymio (you will see thein) My attention was also directed to the various oallo. In Anderson Valley Mentocino los I found no less than I different species. Considering all the variations of In agrifolis as one up, only. The settlers distinguish them also. Next spring I hope to be able to called them all in flowering State. Many of the varieties of Lu. egrifolis fred no acomo This senson. Salsing through the Redevous at the Ports end of the valley I found Achlys triphylla quite felentiful. The Lettlers call it May-apple. At the handles of Pancherie Greek of The Louth end of Anderson Valley I met I fine colony of Lito cedrus decurrens; the station is new as

for do I Know. We have that tree then at three isolated localities on the boast. range: at San Siego, east of Salinas viver Monterey bo (fide Dr. Canfield) and at the excell just spotten of. Ir. Canfield has quite a callection of plants, chiefly made in the Lalinas. He spoke of sending them to you. He mentioned a box, sent to you some line ago, of which he has heard nothing Linee. Inowing you punchuality infer, it must have been lost. In two extensive Ivanyes at Mu. doeino bits I found a balanegrostio unknown to me, it is different, from the four Known to exist here. Alies amabilis a grandio bath seem to be one and the same tree. This as well as Isaga Longlasii Seem to enshoul the Nedwood at that section of the country. Som the Lanks of the Albin up to Noyo, a distance of 30 Miles, about 3 Mi from the evast is a peculiar brack of land 6-10 Miles mide

As far as I have seen Calif. I know of no such combination. The aspect is most peculias. I forgat to mention also beanothers rigidus a dentatus as very low stragge ing should there. The very same forms I found again at Montenez, esso evaled there with Tiethering is moutans. Botanical (Am.) books in my profression works through the hind ness of St. Eng. Vol 2. Mex Boundary Preport. Plantas Tremontianas Thora of North Am. Val I Sulpages 105-112 contain, instead erueiferous plants, a treatise on the infinitive of the Hebrero language. It is rather a curious eix curretance to find Hebrew among the eru eiferous. Your Manual of North. Lates. Hease send the factings through

The death of Sis Men Hooken is quite a lofs to botanical science His letters were always very dear to me Ar. Somey will be with you again - we all regretted it very much that his stay was of to short a duration. Alex. Brown of Berlin studies now our Chara of which I collected several - one he ealls Nitells Californien - I shall take much pleasure in sending you specimens of all plants of the various losses orders worked up by our authori ties. The churn are the only plants that have gone to Eary we though Dr. Engelmann. J. formy self, adhore strictly to the rule that our plants Shall be etudied first in This country, when it can be done With due respect, yours truly H. A. Bolomder

San Francisco Oct 25/1865. Sr. A. Grag Cambridge Majo. Soft. 26 was received yesterday. I thank you most sincerely for your note to Westermann et la. In my last sent but a fan dags ago I gave a list of what I properly of Am. literature (hat.) If you find il more convenient to Lend to Wester wann you may do. They will for -wand them with those I expect from Europe (/ vinius on the grapes) It is my desire to insteam lone more sets and especially to complete Those 16 Leul, not only to wo but as fur as I can. Although I work I find ifretty hard to overcome all the work, that I must do now.

Mels. Tullivant & Les queras Soof Juckerman, Mr Austin, & Engelmann, now also the Charamen in Europe Reep me constants ourning (for this I must call it) and packing. Besides have I some other foreign correspondents as well as American - in Shoot Linee I am alone-for our friends Sr. Kellogg & Bloomes are prevented by circum stances to do any thing-I must worth hard, very hard in order to advance the Moon ledge and understanding of our Mora. fust now on the ere of having a Manual, it is the more necessary Dut believe ma my dear dir, That I do it with a cheerful, de lightful heart - ges I might day with for priets: now I live and enzog my life. I am expecially pleased in Parvin that I can do yet domething for your collections. I after regretted it that it had not keen my good

fortime to be placed to, as to render you any service fand letter before last emvinced me of the contrary and now
let me from that my deeds are
as good so my words.

Thusber is easily settled by sending you his own letter, which he wrote as a reply to my notes on his determinations to which I still adhere. But he may have forgotten it and my sale object is to place us in a true light.

Nº 40 Seonsider as good a species as there is one in California. Smill write to him and give my reasons.

my compliments to Sr. Torrey

most respectfully Henry N. Bolander

un, It. 23.

Next year Iwould like to exend the Many mouther in Horn bald Co. I lould well go overland with the mail carrier and Lend my paper, the larger portion of it, to Eurella. On that trip I roomed la se only from 80-80 miles, get a stag even within that space could be made, as there are 3-4 witer. mediate etations. This is a mere apenion of mine. Mr. King spoke of an article you had written, relative to Brog. Wood' Mound, could you send it to me? That mean be comes a trouble some and me are all on the qui vive. He made known, that he intended to give us a manual in the space of one year. He discoon ed all ready a new Line syris with purple flowers in a Covetheroggne and several new grafaes. The one he sprotte of particularly was balans. Slenties. But he has now with drawn from us all-Exerce me having touched this unpleasant affair - but if trop. Whiting deems il perfectle sproper to watch, who should I and mention it! most gratefull Leng r. Balander

San Francisco Jan. 26. 66. So. A. Gray Cambridge Map. My dead Sis, Jaw favol of Nov. 25 has been duly received thank you sincerely for the information. My Lecond box is ready, with the next steame I hope to get it aff. It contains the comptogames as far as I had reliable Epicineus on hand. Suring This spring I will try to edd were enore. I shall proper There here after right off. Whenever I have not obtained the necessary ferfection of the Epicineens inclosed, I shall replace the by far langer once They are all taken from the stock on which our various authorities have based Their descriptions

Landosed also a del for Proj Enton The first box may have reached you by this time. Your passage relating to Sr. Campiele Jeapied and sent it on and as Abr. Sall is with the Dr. now, he will likely not answer before Sall returns. Thatever faulto you find with un Specimens, I hope you will make Prown to me . As there is here nothing to be seen it is always agreeable to me to be informed of their defections. I thank you very much indeed for your books and articles Lent, also for the offer or rather permission to oflain you advice in regard to the purchase of books, of the school of experience is any where dead, it is surely in this ease, for one after hazo a habt avhiels is unnecessies. of the works of Trinius I ordered only that part beating of the Genera Agrostio and Calamyrostio. Stendel's worth I properly since I am

Prof. Whitney fromised to send me into the field, if he receives an apfor friation. The question has not come up get in our legislature. To you approve the plan of going to lear Lake, there as far north as it can be done by one person on account of the Indians and from their to Mento eine bits on the socalled Plains as for north as Noyo. This try would however embrace out the spring months, untill me earled go to the higher hims, which could not well he ascended before the keigers. ming of June. A parts of the Survey will go to Sierras and Plumas Co. in order to explore the higher regions. With that yearts, Frog. Whitney Thought, I might go then also. If the Survey be continued and money appropriated, il would be well to emsult Frag. Brewed and come to a definite plan in order to waste no time.

Return on to 15 take the advice of Broj. Brewer and take the Amador page. most respectfully Henry N. Bolander Retur 1. J. Leas Fretor would you have The Kindness to send me your Whoto graph? Indeed I was too timed to ask you for it and requested therefore Bry Brewer to do it for me, but he seems to have forgotten all about it.

San Francisco 16/3 66. Dr. A. Gray. Cambridge Majo. Mez dear Lis, Febr. 16 has just come to hand. I an pleased to Muns that my box Nº 1. reached you safely. You ask me, what you should do with More plants. Indeed I am sorry that I did nat explain sooner. The whole box is a contribution, intended for you, of there are any plants nothing to be seen by those Gentlemen who work up som genera os orders, please send them to them, for I wish to do all in my porver to make out future Manual as full and complete as possible. Besides of em sorry that I had not a greater variety on ham to make the box more worthy of your

acceptance. Sor Nº 2 is on the way and hope vail reach you doon. What I intended for others in there, I marked. please accased them also as a token of my good will and as a shight beginning of a compensation for your furbli-cations.

For sets for sale I have not done any thing those fat. Jepfeel still to be employed, as from ised by the Lurvey, and then I shall see if I can not get up a large callection. Prof Whitney says, his frospects are fair. As it is too early to go up the Mounts, during my spring wacation, commencing on the 12h of nest month, I shall go noth on The plains of Mentreino Your contributions arrived Manth you sincerely - They made quite an impression on Prof. Whitney indeed he became more enthusiastie as I ever lan

Their last, that the work of Trining that not arrived and they were of the opinion it caned not be had. I tale them to omit it, if not too late and get me Boall's Carriers in Catalogue 148.

What worth, elementary of course would you recommend me for The study, callection 48 of the Singi for Jean handly have the ides West our should not be made known. Our explogens, especially around this place, are great in number. The lichens and mafres have their master, but the Sugar have been negliched. For mill be surprised to see them all emmerat ed, which Frof. Whitney likes to done in his reports. Prof. Inelle. man will, I hope, do it with the Lichens and Morfon Julivant a Esquerent with the norpes

Nan Francis co 21/3 bb. Frof. Sr. A. Gray Cambridge Maz dear Lis, I Sebr 23th has been duly received. I thank you most sincerely for The information given. You astarrish me by station, there are some new plants in my last young calledion, for Inever get came home less satisfied with my results than that time. Aphanto cheeta exilio covers neis Aubum a large trackt of land, to does the Balsamorhiza and still more that new sp. of heanumeralus; the larger specimens of it under a higher number are

from New Eastle where it is one of the most common Mants among bushes in a light mallow Soil. This is then another soridence that a great deal of work is yet to be done, even near by. I have Inceceded in monopoli, in Botan, for the Survey. We have an industrious men (a teacher) at Maceraille and Gr. Canfield at Montery. Mr. Holder, Dr. Stives are also with us. Nor Bloomes, Dr. Thellogg and my self have done all in our power to concentrate, so to say These men, for one idea; the Lurvey and the manual. It was a necessary step for Prof. Wood tries to stime up whatever he

Is morrow I will go to Monte del Diablo for 3- 3+ days. At my return Bot Whitner will Know, what he can do. If I get his assistance I will do as I said, go to Blear Lake, their with of it, thener west to the enast as for as Nogo. In June then up the Amadre press route as Bry. Brewer desires. Next year in Sebrum I might go to Eureka Thence Louttwar with in a lov of 50 miles oul of Nogs and then again in fine up in the Sierras.

With sincere wishes for
your your healths
I remain
Ufames
unred respectfully
Slewy A. Bolander.

San Francisco 28/5 66. Frof. Dr. A. Gray Boston Mez deur Sis, ed from the field I find · your hartis ex frampleleto from Westermann & loo Allow me to thanks you most heartily for to valuable gan some comprisation in fine specimen, seeds, come, Luring my trip, moths Sealled 200 dp. of pleanogamons plants and abant 25 ergptoJanes, most Lichens. a Lylingman transp in which I got a fine afrostment of barices Land Lonce grafaes I never land (3) + (2) Aphantochaeli exilis of found to be over common plant Mironghand Munds. eine le east of the Redmont De Cantallis views of out asks seem to be correct. The three white aaks run close Du. Wislizeni Lonomensio densiflora - are biannas I collected a fine material Thowing this most strilling,

In agrifolis is annual and can not be confounded with Wishigeni mos winted so I afrested in my article. Those comes from Mount Diable, has reached you dafelz. In a few days me where I expect to make a large callection. Mauro Most Grate Jule, Henry A. Bolanda

Respecting Frof Thurber's charge I do harde humon what to say; but I will gave sometime, when I have more leisure, a face explanation I do not feel as if I hav wronged him in the least.

Mours most respectfully Hem N. Bolander San Francisco Juni 6th 66.

My dead Doctor, Gesterday The 4th. Iwas indeed glad to hear from you before we Start for the Vierras; for just now we received order from Frof. Whiteen to start insuediate ly. We are full of expectations You never spotts before to me about Mr. Jehmith I shall be happy to furnish him Composites, but let it if you please, be done through you Thave been in correspondance

with Dr. S. Maller of Mel bourne for Lometime Last Summer I doub him 4 in feet box with exercineus and Leeds via Lidner but I have not heard anything about it. With your brokes arrived also a francel of Merinen and seed from him. I shall write to him horoever as Loon as Sossible in the manner Hammenlus hystriculus I have plent. I found it also again at Mound Villey in the mostly west corner of Mendo eino Bo. Vies Sping In the dry regions everywhere I from also your Appento che eta en ilis

The enclosed surt of it are from Anderson Valley. Allow me to offer my most son cere thanks for your Photo-graphs. I shall not fail to write to Kev. Sr. Custin of Wills horo Your offer, respecting, flattering in the highest degree to be In ecefsfull and there ung be get a chance-

ton telling the spublic of balif That he has collected about 14 90 species of plants exacting from Lan Diego, following the Coast up to theasta. If Frog. Brewer I report in comed Ilboo up.) then that man is a great outrage. Again he went into the female terrinary at Lanta Blara telling the gring Larrer all flowers around them were new the should collect them and he don't be astorioshed would name them after their. Again al Joeramento he went in a church in the evening and Healting about the wounder full things of the exector, remarked that the treet ou cattle in spring on a species of Geramin, meaning too dum, the Ipanish alfileria

Change July (C) Mariposa Big-tree Grove Ang 5th My des Svetor Tray I we to sure in few favor of fine 26 th was received last right. It is pleasing to me to know that there his boxes are al last in your propersion. The gave me a great deal of ampiets. Teratrum new? Helevino new, Livels common and showing plants along the upper coast! firetrum occurs only west of the Medwords on wet swampe flato covering Men with a profusion of white flows in Light (65) Enclosed I dend ford a spicimen or rather a part of one, little the Lame spices. It has the Lame Stations covering the mountains medows from 4- 3.000 ful all) especiale around the big trees. To morner I will seein a lange lot of them This Veratruns, The composite and Inferms latefolius form the mais bull of a large vocastriv around This hig here. The little of perus grows in the Tosemite Valle and have in well meadown generally afor exacted wills a small typorabalus. I believe Alanto of its character go uno under the Lenno Obariscus or Lome name lette I Mo have no books here of more and have us Under These circumstances I shall not feel ashamed to sub. mil to gan an spring entliction made on the soust. With yours came a letter from Leaguerens groing his account of the winfees Tridontium subulatum sp. nor host a letter published in the Bulle

having only a representative al New Treats Tasmacia Leems to delight him fasticulare Sphagrum Lubsicumstom vale Fishelyma Levastici and truthosto don Templetonis he refers to as fine discoveries . Sof tucker. man has not reported get for how I that I a fine lot, I Monghet so at levaling For the Stepation we much have a different man. it would do to have it done for to Lay the least a man and are it along Aweel ago I sent you an envolop full wills seed of Legion gigan tes. I hope it will arrive safely. the seed are from last fall. Now an impleasant affair. What is to done with dry? Wood . for the 9th of frie he

Now he is an author. I hey you very much to tell me in which muched of the Secretifique James you account wills him is settled. Has he ever published and new plant of article in a decentific journal of some Mond Did his books simbrace and territory which yours does not en brace, before that. man's was Bublished? Will bay Brewer's hoots be published in a suitable selod. This winter I will be speak. ing before and leachers an Van Mand I must lear the masts from the face of that man I have facto, but I little to have dome more Am Thing else but ligger in in an exact decence

Iwould rather have him fresent of face of me of That man fluows how troublesomer it is to called, The how the work in to be sold for the benefit of our setundo and above all he dais lenne, that he is the bush man, fil for such man en der talling and get. he will not desist from In the an illegitimate worth But enough If you have let Brot. Buind furnish ine with those items Heave give Mes Steam in compliments that answer in a few days Allowand were drawn the and Linearly Bolander

Sine my regards to Mr. Mann & Brof. Brewer of whom I have not heard anything for some Time. With due regards

Moth due regard. Jonno most sincerel Ho. Ho. Bolander San Francisco Sept 27.66.

Meg dear Sir,

letter of Aug 24. has come to hand. Thompson's letter I will return in my next. I will see what I can do in the seed line.

This day a week ago, Sar. rived here in good health. My plants have not yet reach. It som as here I this city. As soon as here I shall go to work in order to send them as soon as profile I, for my part, am ven much pleased with my trip; it was

a happy summer indeed Les ymeren's report on mosses from Josemite vally is encouraging. And of 14 numbers sent in letters: four are new to science and five new to California. What will he say when he receives un, collection principale, made at the frat of MA. Dana! The umber of Carices will be considerable Among un grafses, I find 18 species not before Collected by me of Brof. Brewer. Isoctes Scallicher at three Different localities med Not. Dana. also another lettle water plant entirely Strange to me.

It fine Chara also at the fool of M. Dana. Among my grafaes is a Vasega from Mono Lalle - a fine grafo. I enclose a spicimen of Calamagnostis which seems to be the true Strigosa Bong. Collected new Mentreins City, Mag. Near Moone Lake Scotleto 2 fine species of Junei not seen get by I. Engl. The Heratonin Lent, ascends to 12 000 feel on the western and eastern slope. I am get indisposed to irriting and sittein, but hope to overcome it soon.

new spicies. No auswer. That they were new I threw at the time I sent their and I find it now confirmed by Cal Mountos Regers on the The shall I not have the pleas with to hums what a new species has been called? In shall I wait the the rest of mantlind untill The Manual is quillished? What reason has he to recom mend a young man in the last stayes of consumption It to Froj. Whitney as the most proper ferson to collect. Laiging there was not on on This coust able to do it Mrs dess Fretor, I am also and owed with a sense of

Jun Sinneines Oct. 10. Lb. Mayer march ogenist on the My deed Sodo. Ago into the form of as a constitue in the possession in the second to be a four thind Letter of Legel 8 is before me ilas the enclosed account from Hestersam a les Thankyou hearthy for the Lettlowent, wir and see and I made a small collection agreed which Iwell send is loon as fop. Able son in a final in the I feared rather the envelope would not best a men a set it is a set in The enclosed grafs sent a few days up deileed 6 thingon if I realled right Fineaut to Lag 6. purpura sceno 19 13. but the description is to their West I can hand rely upon. This brings me to the Subject of grafaes to the test of

Lowe you get en ansour to the Charges made against me by Graf. Thurber The article in the Agricult. Report was written with a great deal of hesitation, Morning before ham love poor and nieserable un affair it would be Laboring un der these convictions and latting the names from my over kerbarius a fearly wat venture to take refuge to a vaine or author its to whom it would have been more a disquace their an honor to be mentioned in comme chion with that production. I my tell was prefred and Inven to it by the Secretary of that Lust and and and post But in un over humble ofpinion it was not the article in question which allowed Irof. Thurber to say that " of course the

names hadly mispelled - and other remarks equally injustified Sem letters of inine at loast he left manseverer. Of brindles aj grafsen I Lent, I have not been informed, whether the arreved or not Traffica Lent in letters delto Does the Sentleman perhaps believe I would avail in self of the information obtained Mirongh tion and deserbe new Species . Novo, never . If I ask about a spices il is no more me entention to publish it. But to some little information a collector ought to be entitled Latter Wint to No mi dear Doctor, my orome consist merely in having describes Three species which I collected. have asked reflectedly what dell you make Luch and Luch

from to be new species.

With the greatest care I

honor and Speek clearly in. with the second the same of the sa This case that I have not the second of the second of the been negle Afal . Not having the season of the season of the season mentioned hims was done and the second of the second on a point of delicare and the first of the state of the state of the not by usinfalian. the tit a second of the second Lo im ch concerning this. I am torn hul on explanation vous due and in place destigant of for (I read no proof-sheets of that me was all of the series article) They voer not sout and me ell resigned in consequerce ofile. I will be with I callected, as I stated be for 18 Mocies of grapes not teen by me of from Brewer To fait I find none emmirated in the various calologues and Jam Lure that Love went

Searched for thein, for it always Seemed to me as if the gorfors eight to be mire largely refer sente it here, Than usually enimue ated of a sold of the What shall I do. Can l'enfect justice from a man who allows frim ell to beat one in that style? I will a first of wheeler of that Ool, Hounno who had the Same specimens in consideration differs widel from him in many lases Tho is right? Both ovedente segunate plants that are most affered of the same Aprecies and winte others that are de eide de différent. Ment to be seen there is the state of the state of

Please exense, I beg you,
my delaying the matter

In long will prove to

gra hors impleasant
an affair it is for me

fine ganglife Hagiving if
Im Wanffan mining lif.

most respectfull Heur A. Bolander.

who fort does and hope to be sollis for finish pretty next Volley som the Windson soll since If the compens plants no specime some to be deat builden Englin against form I see I him him Inthemen they are fory and been for the survey, those menthered H. I the source per den grander of the the source prosessed to ten to il, men . As a made din cerely in it and and my toesing the fortender leks on the for the Me. Margo and tom to be low. The dansplus was he divided! in smaller deker. Frages the Mann will make about all two shores lets for you and figure say.

San Francisco See 30. 1866. Prof. Dr. Asa Gray Cambridge My dead Sir,

This day by mail a small parcel of seeds of the Big hees. In o few dags I will send you down enou especially some seed of that little new Cypines from the big trees. I have completed now the loom. fositar, Framinese, Carices Liliaceau & Consferau am will try to send them with the next Steamer by was of the Twith Louises, Iser would oblige me very much indeed if you could let us have the names of the composite as soon as convenient to you in order to

And Iraneiros Des 30, 1866. For So. As Iran Cambridge.

of Sommer of This day by mail admall filmed of deeds of the his trees. In a few days I will dend you down ever: expecially down leads of that little near appears form the las less. chave consplated inon the born. folicias, Inminisces, baseles Teleberal a bour final and will in to send them with the west Steamer he was of the boardhofarian. Low wood soling and very name is endeed if you work led wa trans the no men of the composation of here es conserved to fine

enable some to make a catalogue of the plants graving on Trainte Valley and the Marigors King true of the company flients was forther Those buridles washed Dr. In Livour and exclusionely for you and Linch that are worthing up familis for the survey; those maked I'M. are the corresponding mumbers of the same yelands to be told for my own benefit. Mr. Mann fromised one to tend to it, I mean he will lay trem out in Lets. Haves was intention to have twelve Lets - one for you, one for Mr. Mann and ten to be lald. The surplus may be divided in smaller dets. I hope Mr. Mann will make above all two device Lets for you and him self. I have another sociale sweeting in.

San Transis co 23/4. 67. Mag dead Doctor, At last one more a sign of life from you. had given up all hopes of hearing again from you. I feel very uneary about my account When I ordered the fooks, I hoped What my plants might be in your hand by that time the bills might reach you. To my utmost regret I learned to day from Mr. James Hubban the agent of the Smith Loman that he has not dent the bot get but will send it with the next steamer. Were my plants in your hands I would feel more contents, for I know they will tell readily, having among them a large number of Inch plants you so cribed but lately.

on that many or I might Lend it, Lince my ein cumstances are now better. The barices of Booth came by mistake I countermanded the order but too late. But since the worth is in my hand I shall keep it, for it is a mounment to secure and as Loon as I am able I will ast your thin interderevee in getting the real of the world for me. I sincerely hope you well not consider this money water as awant of delieur from my part, for of such a Iclas of 5 months I did not dream, when I made the orders. Nothing would be more disagreeable to me than to have you thinks that I made ill-use of your Vindnesso.

The second box is also ready to leave. I will try to induce the Bord to Lend it by Wells I am now labeling Brevois planto and engaged with the making of that estalogue of the Tosento and Ving The month of June I will spent in Burnhall Co. Since the Bropefard desires me to go there. I would commence calle Aring when I stopped last spring, namely in Long Valley. Lesquerens is delighted with The mosses; he has now about Dos Spécies from me, quite a munher are new. most Lincorely Heury Jr. Bolander

San Trancisco Any 12th Gr. A. A. Gray Cambridge. My dear Lis, With the last sleamer left a bos for you, containing un collection, made during the mouth of June in Mendreino bo and The Louthern portion of Hum. bold. I hope it will reach you safely. I am ansious to hear from you en that Small collection, since I contains donne few interesting felants. Med second bot containing down of the Lurvey and mostly Dr. Kelleggs Jelando mag be also in your hand now. Do not blame me for the

Conditions of the Dr's plants it is his work entirely. Thatever plant sufficiently represented of my Humball collection may be added to ng sets. If it were possible to make out a list of my Tosenite plants and my former parcels it ivaled aprealine greatly in getting ready that catalogue for Brog. Whitney. He is very auxiono and get I have no means of determining them. of the monospetalano plants we don't know anything here, no works gives no any satisfoction. Besides Jamuon putting up two Herbarra for our public dehoals to enable Their to pursue the study of Datany, but many I must leave instonethed, being un. able to make there out.

If Mr. Noum could help me in that I would be very glad and willing I make him enother Let of plants to compensate May I ask you a nother fare? Thouse that Dichelosterma? (ved) he a new plant to science would it please you to call il after Krof. Whitnes; or am I outher introduing by such a remark! The Froj. gave me 300 Drel. for that trip and Iwand like to have his name connected with a heartiful species. These days I will send you a curious plant collecter by Dr. Agres in Boras Lake neus Cleas Lutte. Mours most sincerely

Hour, A. Bolander

And it Leems also judgein from its habits and stations restricted to the central portions of the northern Goast Panger There are but find of the Raumcalus hystriculus left. I am Long for the mistake, also that I was unable to get that new Veratrum fine briations. But I spring I may go to Anhum to collect the Warminenlus hyst. Balsamo-They a Bolandin and Monolopin balvia folia, Lligio papepus Bigelowii in - if another place should not be more Mromising. In the desirable plants might be furnished to the Inbseribers hereafter.

San Francisco Sept. 7th 67 Meg dear Sir, Gours of Aug 15 th has just now come to hand. In amounce the arrival of my second box. the 3 2 one will be now in your hand also, I hope. Then I Let out last year for the Junas I tald Dr. Thellegy to collect plants around Ian I. and then add them to vine from the ME. He has done so, but when I saw the specimens, I was dis appointed and did not care to have their mixed with nine He how ever desired me to send them east nevertheless. In I have done. They may, in some cases throw Lowe light on Lovie yreen. But I don't Mails that any of their are

I hope will tell him all about it, when he return from the north. Rallan's yel cineus Lent as they were given to me. Dr. Ceooper specimens I found in the passessione of the State- Lurvey. They my be of some use to gon, Prof. Brend or Nor. Mann. Only a few sparcels belong to the Survey collecter by myself. Those I masked Martienland, Imme labels of Fr. Kellings are written by me. I tried to do some Thing with his specimens buil found my line to limit The new a concerning my new Dichelostemma" is Lad indied the more so if it should from a good new genus. If has decidedly the habit of Fichelostermy and a superficial investigation

in the field, malling a comperasion with the blue, let me to the bebef that it was a Dichelostermus and there fore Iventured in one of my letters to ask you to call it after our dear Mitney. Lie brusit gloves ummit. That my plant Fealle And in 64 at Which, but it was not suffer ciently advanced and one ypecin only. Being in buto merel I. and Dr. Thellags, whom I gave the specimen, decided at that time that it must be a new Species of Dich. Woodendoubt ed got it north somethere new Facksonville in Louthern Oregon for the Coast Plange in Galif. he seems to have not visited He paper through the Sacamento Valley malking his way to that place. This plant does not seem Louth of the main tel and Venssion Vives divide

Now to our busines. Circum stinces who its Verus not contral, forced mag to write that to Westerman When my sets are done gon maner oblige me very much if you would send we my account in order to anable me to come to a final settlement and to pag you the falance the more so, since ing in come has been enlarged in creaser. I should feel at ceedingly vexed if you show feel or ascribe to me a want of delieve in This matter. My new position obliged me to order many a books which I would not have bought under any alter einemstance.

Maz school numbers now 1053 pupils with 17 teachers.
That such a school with Inch new features, involves great case, I new not explain to you. Vertures: this that English brench and Server are taught in the clopses by natives of the resp. languages and that we aim at speaking more than anything else at the start Newly one half of my Jenpils are native Americans The whole affair has been called into life by one lity Board of Ed in order to meet the tersinopalitan population.

Give my Mind regard.

to Mr. Mann & Brog.

Brewer

Hopping to herr sorn from

you

from

James

Most sin cerel

Shenry A. Boldonder

Could you in duce Ar. Torrey to send me a dreseription of that new genus?

Manual. I may wait untill January. Mailing it, will do to fas nothing was last that way. I winde a trip during Legel. along the evast from Sesendaro to Santa Cours in order to study the distribution of Jennis insignis north of Monterer. Torned we thought this spices. restricted to Monterez and Novi-Comity; but now ore Muoro, that it occurs abundants along the evist (on bitusinous slate rock) commenering at Seele's Panels 12 miles helow Jesea dero and that it extends almost to Santo Enny, of frien of mine visited San Siniera Day wich below Monters and brough me comes from there. He states that "This species goes down the evant for many miles".

Jan & Francisco Och 22 d 1867. May dear Sir, Jour favor of Lept 20th has been duly received I hope the continuation of us notes has Lafely arrived, it was mailed sometime. ago. My collection made in Humbold Go was small. There is an estreme lame ness in that region; the word & best plants I found on the coast wear the boundary line of the two bo. My outfit the difficulty in towns parting hairy lows throughor coun ting so much broken we by diego carrons, in du ein my me to take oul such plants I had not notice before. Red Mountain makes an exception In a swamp of that mountain of Law good things; and Teallected freely Join intrincel

in some of those plants. Is not that scal fleshy plant fit grows alongs in the vicinity of Luescus densiflora) a species of Sares des! What is that Melanthating plant from that swamp (gellow flopsoms, Samens densel hairs - and Eris - like leaves. I have looked in vain to find out what it is. A was my opinion to have only a few of the Duplicates to go in to Those Lets: Helenin Bolais. and Woods new genus for es ample. Hease do not rol yourself but leave as man as flofsible I wish you had given me the number of that new Tago plug turn. Don't Minor the Lenns at all. Word's notes characterize the Lutteman July, need no comments

The Small estra flickage tent by mail, containing those bulbs of the new plant, may have rigelie you by this time, Ihope you will be able to grow them for the plant will give you great satisfaction. At last I howove what your Kammenlus historienlus is? recollect also that it was among Prattans planto. His was collected frett of flourville in deep earnous just like mine (all about 2500 feet) Meine I found on a bank in a canon at Sovest full, about 2 feet above the general height of the water in Lumined. The color is white, forms linge patches and offers great resistence in taking the plant up, Similar in that from to our Garices growing on rocks in de op canous. I thank god in advance for the new addition of your valuable

The cone he bought up is of great interest, Lince it establishes the fact that the fine figure in leaght. Beecher's Bot under the name P. Sinclairie is this spe-Cies and no other. You will find that this figure has been referred to a great many different species. The come mow in the Jeopel. in of the Lurvey could be taken for the come according to which the figure was made. Dr. Eugelmann is delighted about the material on the confe rous trees of balif. I hope it will anable him to tettle once and for all that question. Most Sincerely Henry Bolander

Since Trop. Whiling gave in Geth. 23. 67. Word's characterogeting of his genus "to annoy me" as he said and Trop My dear Sir, fusture I re ceived your favor of Bet 4. the in which you announce the new brewer sent another, I may return one to your again. Heoping to hear do in firm genus. Jam ver much obliged gon ag ann Liemain to you for this all of extreme Vindneso. You have not given me the muches nord him einely Dolainain of the plant and thus I am left experience in the second in the dark which it is; for, if it the section of the se is not largel represented for the Million to the second of the second Lets, it ming be perfaible to processe The state of the s I will go to work and make up In the sales he was get Lome addional Lets nett spring. ca stra Fire in the first If nothing preventome, I will go i set enakle e e is to be a total to Auburn in Lynnig and fall or A Maria Contract Cont in fune the new Facific Railrow which goes now to the very Lumil. The whole month of fine spent

Coff 9. Est and the second of the second a see it is a second of the gran to go a gir the solong is borning the state of the state of the contraction first I will said his sitt said his The the day the second of the selfer comment is not the first the teto stream the tertaction of to some the state of the s in a deliverate a for calleting. The Minter of some of the second for the second in Getting the state of det in the sold of the said the a start for a server of the server of dressed the second the state of the second state of the

alinge minuher of plants. Leto are engaged and I do not doubt the buyer will be pleased with the specimens Anxions & do I await your revision of the liliaceous plants of balifornia, of Some I have I large minde? of bulbs in cultivation, which Itake up every fall. If you desire Lome Iwell den Mun en unneveatel. My school is a public school and the salary your fees year es 2100 Jule. This Literation will enable me to do considerable every year in collecting especially in the month of June which is entirely my own.

the of a star great the star is som to en this fight on a the a tractity very little a effection the sort time, the the star for able to is an art to be a state or se they devotes a second fall is the is a day a a self when seles of the seles of the if hope the see the two age in the The list standard that I have ence former of the restant of a dura in a in exercise the second to the second to the second It the sea of the to we then the Constitute The fillen in the series exceedingly transming the I will The way is about I mile to the of the sisterstains to the s the factor has the control of thought wind the first on it is the series of the fill all the series and Contract to the Reservoir

San Francisco Nov 14th 67. Grof. Dr. Asa Gray Cambridge My dear Sir, Smust hasten to answer your letters; I received no less than three with in a week. Prist gons of Light 24th. Sam glad that the bulbs have arrived, another package of bulbs left with the last steamer. Dispose of them as you please. Dr. Ager's plant is out of Boras lake the water of which is surely more than brackish. Thompson letters I will answed now also. To the desired Leed I will lend as much as I am able to do in my present position. Les my number 6534 is a yelendid plant (Conothern With Whitings) Could you but see how it alosmo.

Atten Sansano Evel 14 th 67. They is then hay then I say The steam of the o senter you letters; Inchesive it was fold than the well in our the Perdi go on of high 24the class gia I that the birth have assissed and the probage of butter to fill mit the land a barner. The fore of there are you please. Fr. Agines pla A word of Beray latte the state of which is during more than hive fit or letter virilland and ware Pero lo the desirer laces I will be it is a some of a some while to star in in the series of the series of the series of the

How it covers the field like a large rose I am long that it grows rather in a locality very little accepsable in a shoot time. Still I may be able to manage to get dome. My grapes I shall take up again although I should not have objected if Frof. Th. worked them up with the inderstanding that I evould be informed of the result. I am hard Jeseped with works, can only worth at them at fits and starts, Ceanothino papillosus Dough is an excurringly common plant in the Verword about 28 miles south of I. I extending southward, especially beautiful on the road to Janta brus. Mis a species highly worther of cultivaction, its flowers are a bright blue in great profusion. Did I not send enough of it!

The state of the tell par that st para provers a fine last from Miles Be a lecture (the first) inger a fragerated and locar their pite granis the freezeway to with the wein I have the there was not interest constitution of a first seek for the The tellaith and file forth that firely · las. Hours be thirt lated west a properties be fort thise are dear to har desire for a other much les fine in che ed, If there come on me and fine front too and with tot with to mee (if with heart of 22 me we all and with the way lest file is

I do insist upon that Mr. Jullions tattes up again his moss-studies. What a pite of our Calif. Should not be illustrated and delineated and added to his noble work! I regarde to learn that you find still new things among my collection, Much remains to be done. In one Lense Jam glad that Lomething is left for me for there is nothing like reaming over our hills and camping in and words. Of course I do hope that you will not comme this as if I considered the finding of new things the end of botanical investigation, this is our alphabet. Yours of Ged. 4th By. So we have the genus Bolanda Thank you again am again for The honor evafure upon me

(it o corridor per the throughours talker up again in make standar. What a fit af our Cartie in and be illered their midelinented so street to live works somether " to to team that you do a that the is theny are one me calledian Much semano to the days, I man Lengt of my glace that sweethers in left for me for there is wellering the orthoning over over to the seed na mighty in sui ser ser. Of consisted the hope That you will had an elme this as followed the estile from the of He o trings the one of bolowing correction the cours sichold. Shows of Cak 4 th fill ed is have the goines blooks is tall track to the said of the the start is fire for a single or and the same of th

but this relieves me from my anxieti. Now I will tell you that I have procused a fine lot of seeds from the Mos Prins monticola, Lambertiana Licea amabilis (the time!!!) Leguvin giganten and Ceanothus integening the finest with white flows. You and Mr. Thompson must have some of it they are from Mr. Clark and perfectly that what I say. It may be that I get get Fremontia before these are sent. Also some fero others Leed.) Also comes of the I. amabilis fine indeed. If they come to me as the first two care (from black) and if you get them Lo well preserved you will he delighted!

highly pleased with it. It is a beautiful pland, growing on shelving rochs in mopes near the Vernal Fall in Losemite Valley; a place or rather spot when I found also Lone most ex cellent new morpes If is rather plentiful there had hard to collect, being extremely tender, it bullows rooks beath off very The bill faid by me at Westermann's was one of Mr. Bloomed who had things ordered in un name. yours of Get. 10 th. Naumber 6575 I think closes my notes for the present. I am torny that you did not accept a set of my Jelants; my offin was made in good faith and The best of will. Thank you for the gecount; I was afraid I might run in debts.

defined by nature ; Leed men only have executed that evaluation. These four species no Dotanist can mistalle nowhere and al no lines Norther Frof Brewes wir I morangbirty else has so fai collected austur afleast. The seed will please you certain I for they are fine. K Times defleta of tring is undonbledt a variety of I funderon, " Exercis ing haste dear Sai and let me hear from you Lorn again. Jours " call " most din cereby Hong A. Bolander.

6 1 6 1 4,

Those comes of the L'amabil's and an article jublished by Munz of Sertland induced me to investi. You will remember that I said once I grams and amabilis might be them more I wish to Lay, They are very distind incleed. Junia, last Lummes I took the Vices, growing from food uff road for the nobile's, as there were no comes. The grand's I saw a great deal on the coast, and con-Lidered the one growing on the Leiras from 3-7000 to Le amabilis. Now I can state most positive & this; on the evast and in the Sierras from 3- Jooo feel is grand's The figures given by Nowbern as grantis and amabilis helong both to this species.

· · · / ite , e · · · The one from food upwards 43. the state of the state of the true amabilio Ingh - the etwas in the second Lasio carpa Hook := the magmifica of Munus, the there. The state of the s of the state of th manus are good and characterists The state of the s I am Low to Lay we have but one tree for their but one whose grandent is sutpassed by none the state of the state of the state of the Market of the second of th of the tribe. That the earnet he all compression of the state of described, there are no word. What has commonly been sold for amabelis is generally grands This a the contract of the fall the contract is The case in our gardino here the total the state of the stat and I yndge from Murrays paand the second of the second fer the Lame was and is done The state of the s in England. The state of the s Next comes I mobiles whose ext of a strain the second comes cannot be mistaken, also Those of the next bracteata The state of the s enul not be mistation. Thus we have four distinct species remarkable, well de-

The set is a leader ray to mese, my to Offli collict o lasting in the Laure Cooled I agrees the Tay in the with the dessirale dures of variation of the site of the second of the Coald you love inc 1 2 this tiles to of they the charitrain in your How another curious afferis. in roor Hing up the Mocketa I from rof thether's view on seel in watering we south of full holosets it closely and form the chove of ins carriet, I call i's vas, browning As filld received forthe

San Trancis es Des 12/867. Ling Sand Cambridge Muls tomer Dieter when Syring mile sextly dear deripound ist after theologic chose of In worthing up my grafses I find it necessary to consult you in regand to I few spices. Trist enclosed I send you specimens of a balamagnostis (my No 4787 4766) callected by me in wet meadown close to the sea evast in Mendoeing to. It was blooming when callected. Norts long and excepting In Stendel I find no yes descripetion auswering to it. In Desvaux Trafses of Chilo is one figured under the name of Degentia chrysostactya, The general aspect could auswer and the pales as figured there agrees very evill, but that's all. Is it a new spicies?

(124 Stance 200 See 1 1/86/4 The awn is straight where green and well buttinists immediatel when drying The panicle remain I very ofen after shedring its seeds Alimina also Haranteres A merepaire to construct you in se gase to A deer Species. This on chaser I down your Specimen of a leada magio stis fund No 4787 A Tab poetlicher by out in inchance. done close to the sea coust in Then Louis 60, It is a blooming where callection, Hooks ling and Cleeffing In thinkel of find no the decirity toon autoria to it. In Dedvans Gafres of Rich is one for your counder the name of Legensia chiefer toolga. The general aspect excellenteres and the parter as hegen a literenesses or were goods has in a the comment

The 2d is a Calamagnostis also,
my No 6471. collected last fine
in the same locality.

If agrees firstly well with the description of varia

given by Memos \

as varieties if Montana Host

the above

Could you send me 1-2 spilleleto of Steps Michard sonis', in your next letter?

Now another eurious affair.
In worthing up the Melica I found
Brof. Thuber's view correct in mathing
my Nº 40 of publ. Info sets
a variety of Mb. floracoides
Towe the last two years Sobserow
it closely and found the above opinion
correct. I call it vas. bromoides
Nº 6/19 recently Lent.

the all (at E and) is the . Commende . land of services and the the to call is Mi lang sortata. of salter Corrers or reaser for a Moelica diner the week is not transfer in the wife for is had the aren gove our reteaure whateres with our you for is One should it his referred to any ather genera Gil that where extern every the for the political their was wared " He for the all the the constant file of the server in the

If we find this correct, we much also take in my number 4698
(recently sent,) from the sea coast,
I east it vas Ciliata or probably better acuminata.

If these are in Nº 6121
from Tos. Valley much come in
Sealt it vas. inflato

Having all these in, it becomes
a necessity to receive also under
that species my Nº 53 than

Lend again recently with notes.

Thurber left it undetermined, Many
Lays, it is a new species, but I

am Latisfied it is a variety only
distances and found transitions

lealt it Mb. Joacvichs

vas. brevi-aristata.

Heaving taken this in it becomes

Having taken this in it becomes a question whether 4861

should come in also or stand as a distinct space. of me fine this courself memust also latte in my more that 4698 I my self doubt it heing dis-tinet if regarded as distinct (recently is ut) from the sea court. call il vas liliala or probello, hette denninata, Ivaned like to call it M. longi seritata. from Jos. Valler mare & Carrer 123 A rather corrions name call il var, in flata for a Melica, since the avon Corresing all there in, it becomes is not recognized in that Lenus, but the arm gives no reliance a necessity to receive also o under whatever with our grafaes. that there in No 2 3 the And should it be referred to any by af again receilly with notes. other genus for that alone, There beer lift it unite terrere erred, Many it a Melica? Lago, it is a mos species of huit ma Latingris it is a nariet justin Sanaly sed them all Sand I found follower if wip there with long their "in wand" ferfectly alike. L'alance d'ann d'ann considera Verte I do formerides Tou would please me very much if you would give me your affinors on these question. var, becornicata, The even of soils of the source of the soil a of the State of

The Friday ship aling ho San Francisco Der 10th 1867. Table will go Cash Lows probably he will talle some Meg dear friend, foll se fer se se street There will be another hale ego Inrote you about some Loon When the Cost ma is fair Involentet granthum, grapes including also one which there from retain see I thought might prove to be a new man with high regions species, but that even was an error. Dr. Thellogg having returned from Jones of months and conder Alaska Lub mitted for envestigation his grapes to me, Among these I form Calamagoratis Lappoinca and by a careful investigation to a start of the start fort over these came to the eonelusion that my little Jeland much be referred to that species. My Specimens Enclosed to me de to fine are very small but in every other respect the agree. Ledebour's Hora Russica helped me more Than Kendel.

All a file of a company ille de a de se where and o age it so the standard of Bafeer inter a galio and thick some of the section of the second process fout that a con a source or The Golde you have very return on firms Hasha dubuse the la constinction in destinations are a green the sal former Carearester for for the contract in by a coreful sinvesting a si at court by the construction . The face little Warmed France to the 20 ferrie to That site is shirt the said to sor was towall had in or itime respect the constant The said the contraction of the said to the said to

The Sr. brought also down that dubious grafs da folyvivo plano witto us Agrastis exarato. Monno es Tundios both referred un specimens most to Ag. asperifation but Jean now speaks with absolute certaint that it is the some of examinata. Wherever I have given you aspiri falis, lot anata should Mand. the different forms I view place to gether and Lend to gru Lorn. feel quité cheerful over these tro diseoveries.

Encharidium Brewers
Let thompson have a few if you can spare them

Did you receive to packages of seed: one contained none but Chilian Leeds and the other some from our ME?

have paper the gear 6% and entered another. May the Almights, in whose hands one life rests, permit you get a long series of years, iseful and blefs ful to your fellow-beings - and grant gan good health and a joyful disposition to advance our beloved seience more and more. - A happy joyful

New Years!!

Mond sincerely Hemz Bolandes Nan Francisco Dec 29th 67.

Dead Sii,

Two boxes for you, will leave to day in eare of the Smith Lorian Washington The large for constains a complete Let of Dr. Trellogy plants collected north in our new possessing and some valuable seed. The large bag, Sicea amabilio = magnifica, contains probably to many to goto England at once, Hease help yourself and if you know any body lelse let him have tome. It roomed he well to send some to the Smith Louis. Verhages Mr. Mans will do it for me. In the small bag you find the

the seeds of the Kemontia, take what you want and give the rest to thompson. Hease examine all the Leed and Rug whatever you like of them. Helenium Bolanderi you will also find among them. The smaller bat contains has fine comes of I amalilis one for gow and one for Dr. Engelmann. The emiferous branches you may divide with the Dr. if he is not already sup. the with their, those lettle pochages marked "Expedien to Alaska" are for Dr. Engelman I hope you will excuse me for sending all these things to you first and beg you to distribute Them for me could not find suitable bases to divide them at once

n, 9

to the terms of th

and the second s

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San Francisco Jan. 4th 1868 Trof. Dr. Grag Cambridge Mass. N -My dear Sir, his been duly received. The rays of 6170 Lingle specimen are purple. It is a curious circumstance and the second s man the that only one plant could be found. It grew on light sand Loil (derived ₹s, < from Isacite) near the debris feles in Tosente Valley. The next day I set out purposel to find some more but all my efforts proved fatal. Buy so wer the Bridal Veil Fall I supposed the seed might have been sweet down from higher portions of the June. Consequently I made close learth for I when we went togher up

but all in vain, my plant remain a single specimen. May it tum uf soon from some direction. The plant is so fresh in un memory that I will always Know it. t y t 4994. Hussia brevitalis is very common near the falls in Foremite Valley, also on the Manyersa trail and expeciale in the Big tree Lrove. Lenerally on gently rising Llopes in light Lock, form the second second ing large trefts having 10-20 the second of th stern arising from a common the the state of the worstock. the second of th I am pleased to learn that the bulbs have lafely arrived. and the the way the I am anxious to Lee the new the fact of the same of the sa vol. of Booth's Cances. Afficiency of the contraction of the second In those two boxes sent a few the second secon dags ago is also gamall feach. age of Lichens for Toop. Tuckens and a few Lichers for Mr. Mann.

The first memois of our Academs is out. It is a extalogue of the unpes of the Western breakly Lesquerent. The material descrip ed therein is still in my hands as soon as I am able to work at it again, In shall have your There. The continuation of our Jus vey is still doubtful. I am of the opinion that the cannot stope it now. Much fall may be expected from a ligislature in California! Our rains deason is immenally hand wind and storm. It rained for weeks in expante, the valleys are overflower and great danning has been done by the rushing most sincerely Henry H. Bolandey

Science to make also the such asses of the people of leslifornio speak once more Lensibly The news of giving away the Jamons Tosemite Valley has undoubtede reached you-What next? We have now rain and nothing but rain, over 30 inches have fellen alread. Seeming & a promising Leason, though Destfull hand to endrice Recping in the house wither me sich and melan chal, I hope to hear down from gan Grans most sin cerel Henry F. Bolander. I.S. Gould you tell us how I canel oblain some seed of the plant from which the Verseau Insect povoder is obtained,

San Trancises March 3 d 68 Trof. Dr. A. Grag Cambridge Meg dead Sis, Your favord of Jan. 19 th Should have been an swere Some time ago, the delay is riving to the presence of our friend Dr. Jarry. I was work happy to make his personal acquaintance. He left for the East last Saturday. I am daily looking for the new ifour of your newly described plants I have made such arrangements that I may here after furnish more bulbo and Leed to parties. The bosses Lent some time ago may be Tyour hand by this time. Premoution has come up already from Lend of the same lot dear to you.

That thrub differs considerables in appearance. News Clear Latte it had Imall insignificant leaves and was of a barren look. How different in the Sierras at about 4000 all where it occurs very ahund. outly. There the leaves are large, feely deuse and the eshale Shoul covered with its large yellow flowers. If it should grow in a similar manner in Europe, it will below an object much sought for. I hope to bring into moster also Smother Mitneyi next year. I am fully of your officion in regard to Mr. Thorngeson's money. Then delivered it is time By my arrangements I ville des be able to funish the Lead of Adenostylis a Ceacalia mant fall. Well, was I aware of the

Sangui torba colle eted at Mendoins; it recurs however out Maning &, get apparently indigenay Trop. Whitney is at Jacoarum. to. The poor Projetsor has also his share of troubles. You may emagine of what Look they are when he is asked by the committee to explain of what prochied use maps are. I il not euragh to sinh a man or malle him Shudden in all his limbs! You man! The patience with which he bears for seine Lake Inch talk, Leens to me almost more praiservorthy than that what he accomplishes. In a few days all will be de cided! entimed or not contimed. To d had the power of making Bilians jack nels speak Lendely, who should he not have merce upon the Tropespoo and

Did you ever Let the enclosed Compo Lite. So. Hellogg collected it near Calland a few days ago. House to say, I never noticed it. Vol. Mours sent me his views on my grafses. I will make a copy of it and send it to you In the 6th of April I diserved two new species of the genns Bolander, Since the genus is so clearly set before me and the spe. cies undoubted new, I took the libert of naming them my self, otherwise I should have gladly. Sealled the one Malvins and the other The Kla; both are few mine specimens. yours most sincerely Henry N. Bolander

San Francisco Ap 18. 1868 My dead Sir;

Both letter of yours 20/3, 21/3 were received this morning, The red Jenstemon in question, of which only two or three specimen were callected in Tosemite Valley, affords one of those is explicit cases of our vegetation. The Lorne holds good with regard to the Hulses heters chrome from the Lame region. It may be said an a general fact that our plants seems always in large numbers to gether and There is no difficulty in funding good specimens. The two species in question were undoubted stragglers, not belonging

to the valley properly speaking. The seed were sweet down by mountains efreaus and kappened to germinate. My conclusion is, I think, fair, for I was all over the Valey, made special trips for the Hulses, but in voin, The very place of their occurrance (Station) supports it, for they were four near little falls. The Vensternors is of a scarlet Color and would be an acquisitions for gardens. The contrast is great with the dein foliage of Almo. I flattend ing self to find their higher up in the MB, but I did not. Another plant of that Kind is a single large specimen of they sopsio (found on the banks oney Alines) that howeved was met with in plenty books of the Valley at 8000 feel also in the By tree From

6570. Hears do not ouril the description of Helemin Bol. and Veratura frin briatum. The continuation of your plants just published arrived a day be fore. When all completed I hope you will send us a small supply I have determined now to spend ung vucation (fine) m the coast at Menteins bo. I have been there often, always making new additions, it is little that I may do so again. The region is so precules from the rest that I love to go there, besides il is cheaper forme to do 20 60-70 dollar roll evoes my enjunes, of their is anything particular to tend to let my hans The new plants from these Jevill collect largely

to cure, look me some two weeks. I sow root leaves much like those of that plant on ME Bullion and also in Toservice Valley (also old hear) which seem to belong to this plant in question) Number 6007 is a plant in which Itof. Whating was very unch interested. He and King brought it down first from a MI new Tosenite Valley Some good feel, but quite young and un devilloque. My Specimon were found on a almost him slope of the Mered back of Tosemite Valley. The whole Ils per seems to be formed of imbricated slabs. In the crevices of which this plant grovos in ver great aboudance This slope is of southern explosure

Jan Francisco Ap 27th 68 Trop. Dr. Asa Gray Com bridge · Mez dead Sir, Your letters of the 21/3, 2/4, and a few lines with out any date are before me. Dr. Hoother's present delights me very much indeed. it is a noble present. Thank you for ell the trubles you have had with it. You as well as Ir. Hooker call the new Vol. the fourth, what is then the one Jespi. Alernain pl1-200 and was Jublished 1858. Heare Lend it to the Swith some in the name of our belif. Academy. Tive Sr. Jang my best wishes and tell him to let me have freely

his desires as to planto. the bill of laring arrived, the box will go to the Smith Louis 4929 Tedicularis Serribarbata is a pretty common plant on the bare Slopes on the Tosenite bail down into the Valley House Lord in open fine frests, also in the Big Tree grove. Do not think it occurs below 5000 nor have I met with it is the higher Trierras, If grows rother Scattered yet tolorably flend. Its color is light, gellow, even-colors (but even that not bright) rather dull.
The second species I attollens occurs ouly in the higher Lierras in Irvanges (litte our Eastern) alwegs Scattered, Lometimes 3-4 Stenes to getter. It's height also differs Considerably Lome are nearly 2

feet high while others are searcely

8-10 inches. Howers puple of sed. I. Semi barbato is inhabit much lite our bright red species her on the coast, dry loose killsides Soil on hillsides in open word. I never learned what the specific name of onos here is. 4928 occurs with 4833 Marryly on the slope, on which are descended into the Valen at 7-5000 feel its color is very light blue searce by tinged with blue, to is also number 4833 which is however more common especially at Ostrander's Sheep- Wanch (8110) evelorto. What is my Composite 6187 from Long Valler, almost the earliest Jelant there and quite Thowy growing in immense lufto. It glant difficult to

esceeding of day (good feet) Sun the plant no more afterwords in any other localit. Could it be your Ivesia santo linvides? Thank you for the seed of Tysethrum. Will see what I oan raise from it. Trop. Whiting will leave for Cambridge in a few days Munday) What will become of our Vol. on Botany, Now when we thought ourselves weard in propelsion of a Manual, we find our hopes molely destroyed by a set of ignorances Still there is one hope left for us unhappy creatures -Wood will stup in and put all in good order - thinks the blow is worse for him than any one else

If the publication should be defend for some years he will show his true color and verify my afsertion that he meant to cope- pluets the fruit when it was nearly Monro Houng A. Bolandez Of the enclosed Sarafragaceon Jeland I found 1-3 specimes among rocks in the higher Lienas - rare -Arn'I Know whether you got any of it at ell.

60:52. Tim mono phylla. Mono Lake that I am in passession of. · Yours mival sin cerely Bolondey. The thing on the I was the same of the same

S. T. 19th 68. Meg dead Sis Enclosed I send you the desired names of the oals and pines as given by Sr. Engelmann, 625 por Lucreus labata . Menso eris bo 6068 " " Wisligerii Eugl. Wear Valley 6067 " " Lonomensis Prenth. ". 6166 Hillsides Coast Raige 6066 = " " lobata
6066 = " " " " 6065 & " Wisligeni Engl. Anderson Valeg 60.65 un in in in in 60.64 man is a control to be to the 48235 - 4 6062) an an in in in Very variable in foliage also sometimes the eups of the acours; but decidedby the Lanne Gueres.

4554 laxus brevifalis Nut. 6061 Lucreus Cobata Thust Shill 6060 " " " 6045. Punis flexilis Ton. 6059 " . Wislezeni Engl. URiah 6051 " Lambertiana Longs, 8-9000 6058 " agrifolia Nees Cloverdale 60.57 . Journeusis. Benth Mount Premone, 6055 ... a agrifolia .. 6053 Abries Mertensiana littlely 6.056 " .. " lobata vas. Sambelian Which not different from Canadensis 4650 .. " Lonoviensis var. 6054 " " Obry so lepis Coast Marige Dr. Engl. thinks there is no difference 4835 " " densiflora Hook " " " and Douglas calls the tree always 4779 " " " " " " Canadensio in his memoirs, but it 4891. " " vaccinia folis Kellogg ". is nevertheless strange that those . This lash spicies seems to be distinct Maine logmen never recognized it as Inch. from chrysolegeis, its eups are difficult 6050 Jims monticola and it, is only week with as a should Coul Neimond 9000 Co49 " " fondervsa Bigtrees at Classe's in high altitudes with elysolepio in the form. The blofsoms sent to Dr. Engl. well probably decide. thus far I always found the empet " " contorta Dougl. Tos. Valley Trail 8000 eups only. 6047 " " Sponderosa Grugh. val. MA. Kemond 9000

The Steamer arrived just now and Saminforms by Westerman that your Yackings are on it. Boli

San Francisco June 30. 68. My dear Dr. Gry,

Ap 27. and Mor Throughon's reschod me safely. I thank you for your thind interference and also for the trouble of Lending the package to Wester I told Mr. Mann about un being in easyable of deciding where to go in order to it best Amy be that I make a flying hip up the Survas in order to become acquainted with the brealities and then go to Mendoeino.

Sr. Hellogy is Collecting wer diligents around here and Mr. Harford went down to San Diego to get the seed of the Jimes Tomegona and Trof. Tucker. man's Composite if flassible hewill also collect there for amonth and then four me at Mentrein bit at the close of June in order to go to Theller took and collect the Leed of Constan Whitneys & bore throggue Hather lato, bulls of the Dehelostenmi") er 5.1 fall a large collection of seed on have and also Died Specimen,

By fall we expect to and seed of interest. I have no doubt you will make us known to your friends everywhere If we succeed in malling it pay we intend to explore yet the tryber orgions of the Siemes without any apristance from the state.

for your Kindreds
and Kind apistance.

Jours

House A. Bolander

The beach you shad no a description of There are quete a number of grapes Salong that W. Koar of which yero cured but few but I I have seen enough to convince Que, that our grapes need a most careful attention and prolonged study. It is a getty that Sof. Heister will not .. s soull, will not co-quate! Well. Col. Mauro is helping we down and to Sexpect to do tomesthing D'al least. 1 Nº 6124 of my plants given as Viefa rigers. Soubtfull at the suggestion of Fif. Husber, Frof Mours malles il Cima Marroura Runth. (Lee Stendels) I hope to hear soon from you wishing you meny-elistmas and the very best of health I remain word Easpe effully Hours M. Bolander

San Francisco Les. 23. 69. Frof. Dr. Ala Gray Cambridge Mels. My dead Sir, Jour Kind letter of Nov. 25 has been received. I rejoiced hearing once more from you and I fondly hope that I way have the plea. Lure now of hearing quite often from you. Those your journey has been a success in cleaning up doubts and intricate questions concerning the Botong of our State. You will have the Kindness of paymig from the money in your hand Mr. Wester warm & Mr. Heiger New Jord as soon as they send in Their clause.

All you say about our late free Mr. H. Mann is correct, all The money in his hand was paid up. The last few Dollars were paid by his brother & Brigham to Westermann. We, S. Kellogg, Harford & my-Leff have on hand quite a large Collection of plants, we will Lend them Loon by Smith Enion. My Summer-vocation was spent in collecting at Lake ahoe and Donnes Latte, also at Bear Vally opposite the S. M. M. Halion Emigrant Gef. (3000 fc. all.) Vedlecker Love very were esting plants on a triz from Bell-Valley north to Eureka-South high up in the Mt? I wish They were already in your hands Harford went to Oregon and Dr. Trellogy Spent his entire

Summer till late in fall at Long Valley, Tillto Bear Harbor on the Coast Prange. In fuel he went over my old ground that gave Lumany a new Yucies. Besides Collecting was specimen his object was to procure Leed? of the various annuals for Thange Low. We have a fine lot of Or. Whitneys Ing and other valuable plants. Will Lew you Some for your over use; mire are al-Yeary week growing. Tent you a few days ag, a little Shoul collected at Bear Vally about 5000 f. all. (on rocks) this fall (Leptember). Having been there during fune and the first weeks of July I could not resist the temptation of going again in Legel.

rejentation in Europe would like to have specing but I have no one now who could un der take it to label and divide them. Dogow perhaps Morra person fit for this work? It is desirable that he Should reside in the U. Sh. My twins: Balandra Malvina & Clara (!) are like blooming roses. They walk now and develope thous delves To finely that they are are and pleasure for us if I hope Lin cerel that Mrs. Frag has entirely le covered Mours Mush Lin cerely Henry M. Bolisoder

6128 Trisetum - of the catalogue is J. barbatum Stens - Browns Drini of Desneaux' Gramineae Chilensis f. 441. San Trancis es Jan 14 70. Trof. Sr. Ba Gray Cambridge Mby dest Sir, were received this day, thankyou very much for the information. Did I tell you that that little Thrub roas also collected by me in Isservite Valley near Mirrot Lalle on rocks but not in flower. Al that hime I took it to be a Bacchan's having exactly the leaves of our B. Consanguinea. So far Tobserver it ourocks only leavel, I meher high in this forms Com I have quite a number of specimens

to go vito the Lets. Car Christmas was well and Deet but our New Year clear. bright & warm and the hill, all green. Reuse inform Trop. This that I shall be most hoppy to es change. His Hert. Luce, not male would be quite an aegui: Lilian for us: We will send you all we Prof. Whitney is still here: we can't tell now whatour enlightened lagis lature voils do. His quite possible however that they will appropriate money enough to publish what is ready for publication.

May school has now 2842 Jupils and still enercasing. On Mornday next we will open! I am quite puryled to find vorin for the new already announced Bosses Jufilo. Fron Leaguerens is hors de Combal and Mr. Lullivant although all wolks, does not write me, yet I Lent Lome fine new mopes from Bear Valley, Inch a Lilence on discoveries is to Lung the least, very discouraging. I hope he will give me a very little attention. Without aid I down that I am doing in the moss-line. I have a fear ful quantily on hand and persons of high

San Francisco Sebr. 18th 1870 Toop. Dr. Asa Ing Cambridge Maps. My dear Sir Jour Kind Javol of fan. 29th has been duly received I thank you for the information. I can well per seive that a mone graph of the Senus Eringonum Reeps you busy: They are in their native haunds beautiful plants, but hard muts to erach. I his circly hope you will delay Mining until you have Leen those of my Collection. The collection is read to go. Would it not be well to write to the Smithsonian to in struct their agent here to forward Those boxes at once! They are very slow now. A box of comes for the Smithdown, was for in outher on the way.

- x 1 - - x

Westermann & bo Lend me the receipted bill long ago. Leiger's bill is Small and will be presented Loon. I am glad to hear that Len. Minns has begun in good faith to work up Infres. I shall write to him and Lend him duplicates of all in my possession. The enclosed spikeless came very hand . the identical form L' discovered this Summer at Bear Valley at about 5000 feel all. This was for the first time that I met with it on the higher Jums. Nest week I will Spend at Lonoma and un Summer vacation along the western slope of the Surray along the 1/4 Proin. These localities are quite interesting A few days ago I received a letter from our friend Leaguereux; he is improving and thinking alread?

I the study of Calip. morpes.

I sin cerely hope it will be so,

for he is remarkable for his projet.

ness. Mr. Sullivant did not

write, he is however at some

of my mospes. The drawings of

the 29 Vol. of his Scones are

nearly completed.

My school keeps me unfolm-

matel to busy, that I can do but little field worth, es eyil during vacations.

again from your formain

Jours

Mount tin cerel

Houry M. Bolander.

they is a Luth mon in from It was glown or . The worth them up satisfactority, let me. Muoro it by directing your letter to Cinco on the C. J. W.M. San Francisco June 3th 1870 up to July the 10 th. Frof. St. A. Gray Cambridge Maps. Heave push Frof Brewer, let hun rooth, for I un der stood Mby dead Sis, he has become quite pleshy. Should any of my loves find I have two of your ents complain of my slowness Kind letters before me I will auswer in answering letters, please es-Them before I leave for the Sierras. Me Cure me; for I have my hands organized a camping party and will quite full at present. Themain for about five weeks at bises Dr. Bigelow and Mr. Eumerson and at the Summit Just think of our pleasure to roam for five weeks were here. I was most happy to on those beautiful Mts in joursuit make their acquaintance. With of objects of mat. history! We are Dr. Big. I made a tripe wito our a large collection. Redond. I start to morrow The arrival of the boxes is gratifying news, we gave then up most sin cerel Hease give St. Tries, St. Hoother Henry n. Bolandes

Frof. De Candolle St. Engelmann full Lets. Dr. Hooker and Bog. De Candolle will receive them as a gift and contribution from us. You use for your own herbarium whatever you desire. Could you not find a young botanist who a full Let for himself? Will it not be asking too much to procure for a banker here and an amateur botanist a copy of Horher's Horn box. Am? He will May at once whatever the const may be. A desire to study botany is rapidly increasing here and it is very much to be regretted that we have no Stora four own to assist people in their desire. your contributions to Botany have arrived, much obliged

I have been out a few days in the Redwood. Think my astonishment in finding a Igmmo stichimer very likely out Historix, growing in Marin bo also down in San Mates Co. The grafe in question is very much larger in all its parts than the eastern. is hirsute and has a drooping spike. As far as I am able to learn, it has not been collicted by any one, though it is appearently quite common. At my return ! will stridy it. Enertais Wishigeni Engl was also found growing in law Mater to in the Redood; thus for I found it only north of Sonoma bo. Thould there be any plants arroug those collected at Bear Valley that Tequire additionals in order to

of Stipe all referred to It. viridula. There are hos species at least and begond all doubt. Yound also three Small lakes, containing Soctes, I had the pleasure of recting Frof Whitney and Bof. Tibbs on the ears coming home Yours Most sin excely Hong 3. Bolander

San Francisco 13/2 70 Dr. A. Gray Cambridge May dear Sir, The beautiful days are gone and I am at school again. I found quite a number of plants new to me. Dr. Thellogg Temainer at the farmit, he will perhaps stag their until The labels for the plants in your hand should read Thus: Hands collected by Dr. A. Thellogg & W.G. W. Harford in California &

I would be hardly fair to add mine. My con -Inbution is rather small (Lome from Bear Valley Some Lake and Hambold & City Nevada) When named, we would like to have the list, for we Kept duplicates for our Headenny. Tell Mr. Watson to Save for me a set of his plants - if they can not be had any more I would like to have him Lend me as soon as popule at least a few ours and ends of all his grafses King promised me to let me worth their upe

hal I surpose now that he has changed his mind. That matters very little but I would like to have at least a small thing of each kind. They might be sent by mail, placed between paste-board. Will you have the Rindres to unge this! I will not commend upon Allow me to Lend you Loon Lome of my dis -Coveries ly letter. They are get in the mountains. Enclose a slip of a Cemarkable Stiges, new to me Considering all, I am able now to clear ap Some doubts encerning Those various from

Juni. As Loon as the Soctor lances home Iwile have to communicate quite a number of plants.

Hours most Lin cerle Henry n. Botander San Francis eo Sept. 26. zo. Prof. St. Gray, Cambridge. May dead Sci,

I should have answered yours of Aug 31 thong ago had I not enjected daily my plants from the mountains. They are in charge of Dr. Hellogg and he is still on the summit Collecting. Sam glad that Brof. Brewer has gets upon those plants, those Collected this Summer I will by to just in a more agreeable Strape. The old Doctor is rether inclined to bringle matters, though an incepaul worker, a maustio

is never tired to whom no mountain Leems too high or tronggor. I thank you very much for those plants (European) I shall write to Sr. Hooker about them. You have taken more trouble about the grafs question, than I could know Lupposed. His true I fell a little hurt that I heard nothing more of Mr. King whom I had learned to respect so much. I thank you for the Kind explanation, At last I heard once more from Dr. Engelmann, Lesquerens and Dr. Torrey, I thought all my old friends had forgottes me. Dr. Jorry Lend me a Dretor Diploma. Dr. Engelmann voroto four long long pages on the fines full of puzzles. I must set aside a whale week to answer. Mores. Lesquerent Thinks he is now

able again to take up my mofses of which I made large collections Dr. Kellogg will bring the Brya not reje , when I was obliged to leave. He will find this Lumer's work a fine contribution to out Bryolog. I have also a large number of Lichen and Heyaticae. Frof. In cherman has given me up as a lost case, because my school duties ded not allow me to make as many exeursions as before. A few days ago, Tre ceined a bot from Sr. S. von Maller. Il container also a package of plants for you. Hope to find Lowe one to take it east. In a few days you will receive The last bill from Steiger. Son't Muow whether all coming to me is used up of not. Thould it be the case, will try to re-

San Francisco Oct. 19. 30. . Trof. Sr. St. Gray Cambridge My dead Sis, is before me. For ler's pareel is for me. Hease send it with Dr. Hoother's plants by the Smith sonian to our Academy of Seiences All the plants collected This Lumier are now in town and we are busil, at with to arrange them. Heare give the enclosed lines to Mor. Wasson I could not make out his initials.

I am quite anxious to Lee your Tolemoniaceae, they are really those plants with which I could do nothing for the want of Hooker wile cam, out the plan of coming to this Boj. Whitney. Jours most Sincerely Houry h. Bolander

Vilfa rigens, doubtfully Lo namo leg Trof. Thuber is Comia macroura (fide Muno) it agrees well with the description of Trining. Cerclosed I send you a paniele of a grap from Virginio eit Callocked by Bloomes. It pury his me. The overy is bearded - the Synamelee triangulas moved apart and ciliate. Tal Mones mucronate on the back; upper bifid. Jel is looks all like a Foa. A few Leads of a Jukea from San Luis Obiopo.

Most Tesperetfully Henry n. Bolander

San Francisco March 21.71 Froj. Dr. Ba Gray, Cambridge Dead Sir, Both your letters have Come to hand. Sentellaria B. was Lent to day. It is the oldest specienen in the ternaining lot. The plants of Dr. Gag's Horbarium, Sent through the Swith Loman, have Safely arrived. L'et you receive a parcel of seeds, I believe three of frus Kinds, Lent in a letter! Seed almost of any kind were seaver last year. Its som as my bulbs have flowered Iwish to Lend you are entire Let, to that you may study Then growing .

Some are already in full bloom. A Serious question are our lilies. The large white one will not grow here. Many attempts have been made. Bloomer Leud his best regard and thanks for the Tolemoniacear Dr. Fellogg Calls his little pel Dicentro D. uni flora I am pleased that you give me an opportunity to do some thing for the Cabinel of wordy Can't you give me the Lize of the blocks you prefer! the Redwood I will tend to al once. I am Sorry that I allrow my self to be tun in debt to large an Could you Lend one a fait Gueimen of Neutrale's Toa

Could you Lind one a fair fuciences of Neutrale's For a andina? Sam revising inglange eallictions of Cal? grapes Have made quite a number of

interesting discoveries and veri-Seations. In the latter I was much aided by Specimens Lent from It. Setissbury and Chili. As Loon as I have finished my rorth Iwill Lend you Specimens for distribution. Many Micineus are well prepared and will please you, although Cima arundina cea var pensula from the Bigtres Trove has nor stamens that from Beas Valley one Trisetum barbartum Stew is Browns Frinic in Deswant' work on Chilian grafses. Stips enienens Car. has but our Stamen. Therefore correct. The ver Stips Lent Some time ago is a true Lasingrostis. The For named P. Lylrestins is the mountain form of I trivialis

San Francisco May 13th 71. Trof. Dr. Ba Gray Des In Enclosed I Land you two Brodiaeae, the one is our common (growing in the valleys and boast langes, the other Tobserved for years in the mountains at Bear Vally (4000) and other places. Stook up roots of both and planted them side by lide and they show Still a Lighti-

Cant difference.

Rease examine. Will

Send you bulbs in fall.

this is not to be con
Lidered an answer to

your letters. To morrow if pufsible I will auswel eil by you, and Lord Walning ham have arrived. They Jones most terjectfully Henry M. Bolander PS. Shall go to Fosewirte Have you any thing particular to broth app • \$ and the second second

be accompanied by a come. (ald & young if profailer) your third letter I wice Tead to our Academy and then report. Could you pro ense for me a report on your polytechicit school. Being one of the regents of the Odd-fellows college, I would like to see, if out men could not be persuaded to create a poly teekmie school, instead of a common collège. How can I procure a entaloque of your most enterprising and skilful govidene??

San Francisco May 20. 71. Prof. Dr. Ba Gray Cambridge My dead Sir,

I have to exired thru letters of yours. Melson Hornes and Mailland have been with me they are now in Mendocino Go. I shall april them in what. evel I can. Allow me to exprep my gratitude for that. large package of plants. I had a letter and package from Warson to day. I think we now understand le och other. How winch I should little to Grend a mouth of two in your habarium, nothing would delight me more. Alas, that selevel

Peeps me dosely down. All I can hope is to spend yearly a few weeks on the mountain this Summer's vacation I intend to Them in Josemite Valley. Let me thow if there is any Thing special to Cook for. I shall likely distribute Lower of my plants get before I leave; in that case I will send a package directly to Troj. Thies. I will also write. I think the collection of woods should rather be one of ours only; or ours should be at least they by Themselves. These museums, containing only what belongs to the immediate surrounding are most justin elive and bene ficial. Sul up with foreign freemen they love and are

underested. I think every place should have a museum for home productions first before any thing else is attempted. If we can induce people to be Come acquainted with what Surround them, and can cultivate. Their taste for an emderstanding of their home, we have gained all. the blocks of wood should have al least the length of a fool, else the bash will not show its character rock also should one side and top-end be Kept in a rough state, and the the other Is de and top-end should be polished Lo as to show it in both stages. Meas the block should be placed a branch or two with the blopson or fruit. June-blocks shrued

I wish to open correspondence with one who mostly vises ornamental glant... I hope Frog. Brewer. will spirse vere! for hereis a great longing for his worth. It seems as if Bot. Should receive a great deal of attention by our people generalle. I enclose the ripe capsula. Brodeaea coccinea. They may perhaps interest you. Boj. Brewer. With due regard. yours Most Sincerely Hemy m. Bolander

San Francisco Nov. 4.71. Trof. Dr. A. Gray. Cambridge. Mog dead Sir, I am almost ashamed on account of my long continued Silence. But non have undoubtedly learned that it is not my fault. Having been placed before the people of this stat as a Candidate of Superintendent of Sublie Justinetion Contrary to my desire, I had to turning attentions into a different di-Tection entirely. On the 18th of Oct. I was elected by nearly 15000 majority - and now I feel like returning again to my

Havorde Seunce. My new position enables me to do Considerable work for it. I will have more leisure time. The office itself compelo me to be out travelling about in the State four mouther at least during the year. The state pup yearly 1000 Dell. travelling expenses. It is my desire to turn now my attention to the distribution of our occetation. Jugge tions, Justaining to this Lulge of, on your fast, would be very raselcome in deed. I have collected in Best Valley a few plants, that Teguire your attention. Will Lend them Loon. Accept this as a lign of life. Mont respectantly Henry A. Bolander

I have published a few more
new existing of balig grapes.
Will send you the paper and some
specimens thereof. In fact, they
were laid out some time ago.
The roanted parts of our
froceedings will be sent to
you by Mr. Bloomer
The ase push Brewer
to the utmost, fore there is

to the usunost, for there is such a great demand for a list-book of our flora. It will be still greater in a chort time, for I intend to make the study of natural history obligatory in our common shoots.

With due regards

Jours

most respectfully
Henry St. Bolander

Heave tended to the word question. Will be able to furnish our storm

San Francisco Jan.27. 72 Prof. Dr. Asa Geay Cambridge My dear Sir,

Al last a sign of life from you! I really began to think The whole world had forgotten me. Tittle, very little have I done since I was hourinated and I wally fell that something was wanting: if was the intercourse with my plants. I made a new start. Commence to ausiver letters again and feel the better for it. I collected in Bear Valley a singu-lar composite, which I wish to refer to you. I found but three specimens fel to lake.

Spring has come; out hills are

freen again and the veoleto

My new position will not exactly permit my to make large collections, but it will enable me to make small choice ones. It will afford me an opportunity of visiting far-off districts.

Jar-off districts.

During my turn of office I wish to study particularly the distribution of our forest-trees and plants generally. I hope you will make some suggestions as to mode, manner and method, for I have if now in my own hands to Leethe whole state.

whole state.
I have no doubt that Prof. Whitmy will be enabled to proceed. In
all the members of the legislature
with whom I spoke of the matter,
seem to be very favorably disposed
being called before the Committee
on Education, I endeavored

to show to them that, without the complement of the Surrey, our schools would be deprived of some of the most useful and profix all studies.

able Stridies.

The prine question is before me again. It Engelmann is Still dis. Satisfied with some of the conclusions he arrived at. By his long explana. Torg letters, I became convinced that the material, collected here and now in European herbaria is in a most sad confusion.

It can hardly be expected that Bog. Brewer will touch those plants, before having finished his botanical Export.

I sincerely hope that your soliety will week here and you will come out and sights, the Issenite, the Kedroras, the Big Trees of I shall talk great delight in accompanying you to some of them places.

Mend wishes for gons Lage arrival, I am Jours Most tespectfully Houng It. Bolander

San Francisco Apr. 18. 72.

Prof. Dr. Asa Gray.

Dear Sir, I have two letters of yours before me. Certainly will lolled a small number of all things unknown to me.

Modica aristato thurb is as true
a Modica as any existing. Its inner
structure is decided that of a
Modices, also its habit and habitat
I have quite a number on hand which
you shall all have besides other
good things.

Sain happy to learn that you have a fine time; fortunately I am now to placed that

lan accompany you. Please make it a long stay for we have many places worth seeing. Ban not Dr. Torrey be fur. Luaded to come? Will Prof. Brewer give us also a school edition of his worth? If he should neglect to do so, others will take advantage of it and realize a handsome profit from it. The greatest desideratum now is undoublielly a good cheap botanical lest book. I shall make a short trip before your arrival into the eastern portion of the Sierras. I will be leacht by the time you come. With due regard and

STATE OF CALIFORNIA.



DEPARTMENT OF PUBLIC INSTRUCTION,

San Francisco, See. 10th, 1872 Frof. Dr. A. Gray Cambridge

My dear Sir,

uight. Concerning the Lineau, I wish to ast you a favor, a great one in my over estimation. Would you have the Hindness to change your name into that of Davidsoniana in honor of Mon. David -Lon, the worthy Lady of frog. Savidson out boast Survey. The astended with me Mount Stanford. We found there a Friends of great beauty, and it being new to me, I thought it wight also prove were to out Science. In this we erred. It Leems to be your R. Lufftentescence. To confunsate our Lady freind, & thought it just that her great exertions should be recognized. I leave the matter to you to decide.

The flowers of the Linear are beautifully The remainder of your letter I share ausroes some other time. I am have preper just now. Hour A. Bolasider

Ar Antrophy 's I by an Mm STATE OF CALIFORNIA. DEPARTMENT OF PUBLIC INSTRUCTION, San Francisco, Jan. 5th 1873 Froj. St. Asa Gray Cambridge. My dear Sir, Concerning out accounts of rather un, account, I am juripared to settle either way. If you can make use of plants, please tak whatever you consider an equivalent, but if you prefer each, please Lend me the bill. I am quite Long that this matter was delaged. I am very glad to hear that you are pushing ahead the Bot. Report of This coast. There is Luch a demand for it. Alinost daily I am asked: When well the botany bebut? I think my self there is but one honey suchle in this State. All Sobserved Leemed to me but variations of the Same species. Limae is here. A gardener (Miller) collected

it near Nevada City last fall. Versonally I have never met with in un, rambles. I always found Arctos tapley los jungens a procumbered strate, leaves bright shining and acuminate, while those of A. glanes are dule green and cather blund. They differ also in pout of distribution. A. Jungens secure on barren Loil near the coard and then again quite a bundant on mountain from 4 - 9 mileet up. wards. A. glanes belongs strickly to the gnost barren and driest portions of the interior valleys and foot tills; it is always erech with a broad top. I shall try to send east the plants col-licked by me last gen; they may be of Lome Service to you. Helpy New Year! Wishing you good hearth, Sam, dear bis Your work stedient Henry A. Bolander

I little by I stand to go is my entit town that leaves that their that their that their that ann Jul, 13 San Francis er 2/2/3 might be referred to lot. Olney, whom I have quite Fif. N. A. Gray Cambridge neglected as many other. I'm this I am quite time, Deal Sir, this day I finished but il cannot be avoided I started my boy in the the distribution of my plants, erlen gardenin, business, especially ed during the last two years. The the raising of flowers and box will contain four parcels subtropical trees littely for you A: I. II. II II to Mand our dimate. Any Also our for De Candolle, oue Leed that you may have for Maximowing. The one for to Spare will be thankfully Dr. Hooker I Shall Lend directly. Telived. Desiderata arevespeci-As parcels 3.4.5. Contain plants ally fuch plants producing I did not home, I thought it better white flowers, Luch of fine not to distribute them among these Three Gentlemen named, but leave foliage 44 Mound usperfully it to you to Lend there a part

or Luch you think will interest Them. Moun. Maxemonier, desires to pay for them, but I wish them Considered a present By mail I Lend you with This letter a Small parcel, Containing plants collected by J. G. Lemnon, a teacher, in Sierra Valley. His Mecimens are floor; but still they may interest you. In future he may do better. he is quite an enthusiast, and a good moun-Taineer, he may be able to find many new plants get in those mountain recesses. Hestays a good part of his live with Dr. Webber the owner of Webber Latte. The old Leute man has no children, he adopt ed five, and had their edu-

lated, Some in Europe, and now he is forsaken by all of then, and leads a retired Su convetion with this will character, I would most hundly ast you to dedicate a species to each of these Tentlemen, if There are any new ones. Maspecinens in the Surace parcel, Sent by mail, are numhered which please to attach to the names. Knowing that you are al with mous flora, I thought a new Lupply of Meening might be descrable. On a few grapes I shall tepert myself. The two grancels of Carrices

STATE OF CALIFORNIA.



DEPARTMENT OF PUBLIC INSTRUCTION,

San Francisco, Apr. 1873

Hof. D. Gray Cambridge

Dear Siv, lam just preparing to leave for San Diego and Shall stay from four to Lix weeks. I hope to Les and collect good things. Shall report at my teturn.
In the box enwing your will find plants for Max.

of M. Peterstungt, Algae for Faton, Carises for Est. Olney 45 Haze Send Brof. Ma erroan whatever you Thuits will please him of my plants. All Inch matters you settle to your litting for you know best. Could the Profess be persuaded to Lend 110 Some Spornles of Jerns, or Lower Leeds of Lower good foliage plants. Webber Latte is about 20 miles north of the Summer, where you expect the Sierras and

Think equally as high up as the Jummit. Sima Valley is 25 miles north of Truettee on the eastern Lide of the Surras. Imagine Lathe Jehoe dry land and you have the most perfect preture of that valley. Illink Il evers also the Jame number of square miles. Its allitude is boos above The ocean. The Sad news of Dr. Tring's death has reached us. Fermil we to remain Silent. I have not words at ermmand to express my Lorrow Wishing you good health, Same Dear Sir Jours. most respectfully Moung A. Brander A.S. Could you Suggest a name of some person in the South of whom Sevile Jusque May notin Lever "

STATE OF CALIFORNIA.



DEPARTMENT OF PUBLIC INSTRUCTION,

San Francisco, May 31 1873

Rof. Dr. A. Gray

Dear Sir, Shope the two

boxes one for you and one for Dr. Horother at There Gardens, have teached Their destina-

tion. The plants for St. Petersbourgh be

monies. He may dispose of them as he

Les fil. Sam quite anxious to do ale

in un porver for him, also for Dr. Hooker

and De Candolle.

I have safely teturned from my Southern tois. The plants collected, during that triss and each as I may yet collect this face will be formarded for distribution among your friends. I intend to visit the Decalled Tola Bolo, a snow-covered

mountain of the boast Kanges went Red Bluff - a mountain not yet visited by any naturalist. The Red Mountain on the boundary line of Mentocino and Humbold Co. yielded many a new Species and there I expect to find many more, being farther north and Inow Covered till late in August. When you dispatch the plants to It. Peters bourgh you might add a Let of those etile in the hand of Bog. Brewer. and charge il to me.

you, I ain, dear Lie Joans

most respectfully

Hours A. Bolonder.

Department of Public Instruction, Sacramento, June 11 th 1873 Hof. Dr. A. Gray Cambridge Dear Sir, your favor hus been duly received. I look the boxes myself to the Steamer, and ous mutual friend Jam. Hubbard look charge of them. They are undoublide lake though flow. By fall I thall Lend you Some more. You may diswibute them to your lilling Al San Siego I Journ en large number the genus Bloomeria extending as far north as Santa Barbara.

I took up some of the The Peris Lambertions fonder. Da, Coulteri, Libocedrus decurrens and Abies Loughasis Could you mention any occur largely on the Cayumaca Time when out Manual Could mountain in San Diego Co. be ready? There is really quite There were get a number of a demand for it. its appear -Inon patches on it, when ance would slien ulate very I ascended I in April. much the friends of botany 8. Coulters is largely used and the geological Survey, That for building purposes, and do a great deal toward arriving at a better throw lidge As lumber, horowers, is of The proves quality. of out flora. Anemopsis Californica The mountain is the most is very common along the Southern limit of the Jugar June on this crast. Crash of the Truthers Counties Mours most respectfully Henry N. Bolander of California. I think is would do well ander proper Cultivation, for Its heads are large and quito Llerwy Ceryumaca is 60 miles earl of San Diego

STATE OF CALIFORNIA. DEPARTMENT OF PUBLIC INSTRUCTION, San Francisco, Jung And St. A. Gran, Combredge Dear Sir Jour Merid letter has San Francisco, Meg 1 2 187.3 hunduly received. To Hooker I Lendouly Jeaning their might be something new among the others. Please Lend those African plants though the Smith Louisan. In return Line a Let of Gellogg's plants as agreed upon before. Do. Shellogy is in the Sierras collecting. Neither I, and Mr. Bloomes could find anything of his desembed plants. can apure you that we both protosted against publishing any thing botanical. I there that Lynonyms were added, but out talk was of no avail. The late Sis W. Hooker wrote to me once; Mhal are you doing in balifornia, you

are describing plants which I des-oribed 40 years ago." A letter from you to hos. Whitney and Brog. Davidson will stop it. The rays of fenta chaeta aurea are Lulphur color. Shall Loon Lend the plants Collected in the Lowthern fart of This State. Yours mist respectfully Henry A. Botander

STATE OF CALIFORNIA. DEPARTMENT OF PUBLIC INSTRUCTION, Pol. St. Asa Gray, Cambridge. Dear Sir. Jour Javor vons received last night. My Lincer thanks for the Communication. Breweting Suffentescende This new plant occurs in great abundance mas Ciseo, on Surace barren plains, closely join ing the South forth of Guba river. It also beens word abundante between Souche and Donner Latte on Junilar barren placies. These Small level plains are made up of discinlegrated granite which forms a loose gravelly Soil. The plant's growth is Lingulas: il formes mapy Semicercular or Sometimes Circular tufts, having one

ally free of all vegetation. The cautine leaves form dense tuffs and the stalls

Mes in great une bes among theres. The flowers are greenish white and in great profusion. It has in every respect the babil of a fine border planet. The lower part of the steen is worry, bearing tuffs of leaves a little above ground. The difference of allitude between the two places cannot be very great. Sent yesterday, by mail Vol III of the Roccedings of Cal. Academy, for Mr. Wasson. Menz N. Bolander:

Mass the name of the onth, collocked mar Los Angeles.

dan Stancisco Apr. 11. 14.

My dear Sir, Sincerel, leopes you wite crouse this long delay caused by effi. cial business before out legislature. June I wrote last I have received Part I if lot is from a bookselled in Lindon, thoules for your lived offer. The plants from Frof. Mac Croan arrived safely. His are very hear tifue and acceptable. Thanks. Dou't hure whatto say about Dr. Kellogy. A letter to the Krosiduk would have the desired effect. I found the flowers of Kafines quia open during the estrole day

I am une preparing to yo north. I weed it very unch after having her i four months fighting he fore out legislature I feel extrauzted and almost lived of my very existence. Politics, if forced ents de, as I mas, are sufficient to tire out and enoch out all urbler inspulses in mare . Sunder. Stand life now wuch better, than ever - I Lee why to many of our younger men hecome atterly, un fil for any carnest with. Coping to hear very 200 mm from god Jan, dear Sir

Jan Francisco 12/1074 Krof. Dr. Aa Gray My dear Sis, Jour favor day. Man, Mants for Lo long a letter which is rather length. It is highly appreciated: Historie Bolanderi Stado who run into the ground, for he is quite Latin fied get to be above it. But lince this is a tall and conspicuous Shoul overbolled by many a traveller, I beg for the first time in my life to have of named Bolanderi. Strange. I hope dear Doctor of many not strike you so. Tongto a new country on the top of a

Stage for two days and two nights with out venturing of closing even one eye, for Jear Sweight mils one plant deserves a little allowance And fust in Commenioration of this youthful endurance Jash the grace on your to give this Should un name, If you do so I share Lend you next year either Leeds of voots, Mans. most respectfully Blander

San Francisco Dec. 23.76. Hof. Dr. Ba Gray, Cambridge Min dear Sir, Inil fall: Menny Christ May it be my good fortune to congratulate you for many many years to come. I am in propersion of Volume first of the Both of Calif. Senddust will am longer, So I bought it. HoroKers & Beuthams Genera Surpeys. Fart Seemed unglill be divided and Lend by mail.

Bolifonia Joseph.

- Mar is a fine chance.

Abs.

Il have no rains but instead of it weather not to be Surpaped any where. Too good entirely! Should like to have some duplicates of Jungi from Bof. Parlow but I hardly dare to ask him for it directle. I am of the opinion there is much to be done yet her in this line, But in order to be able to make good specimens, it is necessary to Lee Some. My voom, especially built for my herbarium, is word com pleties; and my plants parkly arranged. I am now ready! to enter again the arena and It some thing in botaing hy way of collecting. Hopping to hear soon from your , Sam yours ceres Bolancier

San Francisco Tebr 27.77 Roj. Dr. & Gray, Cambridge. Dear Sir. I hope you will excuse This delay . Saturday before Christmas Suras telles Siell. For Three weels I did not leave bed; and after I did leave it, I always felt to wealt to attend to my affairs I feel much better wow, but their is Itile an appathy and a general depression which I have been unable, to for to shake of. The book has been duly Exceived and in two or three days, I shall lend you a money order. Many thaults. We have had but little vain thus far. Tel a grow harvest is expected in the Coash counties. With du regards fours Just respectfully Long D. Brander

Jan Antones 25/1, 82. Frof. Dr. As a Gray, Cambridge. from New York in Sept. At the time, I could not tell where I would Trop. June Svorote you last in 1878). Share travelled considerably in Central and South America Jenu & Colile. From Chile I went to Europe by roay of the Strait of Magellaw, Montevideo Cape Verde Islands and landed on the 28 th Appel in Le Havre. In September S'Eslumed to the U.S. and after Selling Loune business in Cincimate, I Started

for Monterey Mex. During Winter and Spring I Shall Stay here in San Automis to Cure ruglely of a Severe Cold which Scontracted during my bravels. As I have for the present no Connextions with any Brothseller, I desire to ask you to order for me if it should have been fentlished, that fact of Hooker al Bentham's Tenera Hanterum which treats of the Slumaceous plants. I desin also a copy of House's Thyliography - Sutroduction to the Andy of Nature (Sevil not find il in any broth store here) What is the price of the 39 volume of your North American Moro which appeared Lines I left for the Southern contries.

this request.

This request.

Any information on what has been done in Botany, would be most thankfully received.

Lease temember em to all my friends.

Wishing you good health, and cheafulness, I am, dear Ini Yours worth respect fully Henry A. Bolander

Van Antonio Tex.

A BOARDING AND DAY SCHOOL FOR BOYS. J. W. Helowster. Sereno Watson Ey. Cambridge Dear Sir, I desire to achievely the receipt of your Contributions to Botany XIII I was especially interested in the Notes es from Flands collected at yearal. That Section of Tuatemala Inevervisited, but I know its flora is entirely dif. ferend from that of western Guatemala, where rains fall for lix mouths only, from May to October. During the other mouths of the year all is dry

as in California during Summer. In the eastern fart of Gratemala resided Several Botanish who made large collections: von Deistheim (Baden) and the Jarg brothers, now however at the Capital, also Dr. Bernoulli, a Siriss, made large collections, he employed for a time a young friend of Frischack, Garus by name. Garus event home to Fettingen and Sr. Bernoulli left also with his herbarium, or rather collection. I should have said, but was overtallen by death in San Trancises. I do not Know, what became of his collection. Will you have the Kindness to inform me, what the botanical name of the Shamvock is!



BISHOP SCOTT ACADEMY

J.W.HILL, M.D. PRINCIPAL.

Portland, Oregon. Jan. 19 1893

To the successor of Sereno Warrow.

Dear Sir,

A young Soutleman who is engaged in collecting on this coast desires to have Sereno Walson's Revision of the North American Liliaceae, issued Aug 22 1879; also his revision of the American species of the genus Engthronium; issued July 31. 1891.

July 31. 1891.

If it is possible to supply him with the above, send them to me if you please.

fours

Most respectfully Henry N. Bolander

201. Cov. 22d x K. Str.



BISHOP SCOTT ACADEMY

J.W.HILL, M.D PRINCIPAL.

Portland, Oregon March 19 1893

Benj. L. Kobinson Esq. Gurater

Dear Sir, Jours of Jan. 27 has been duly received, but Warson's Nonograyh of the Liliaceae has not get made its appearance. I include in this letter 46 c. The price asked. I am sorry to say that I live now in the most discinteresting region Sever lived in botani cally speaking. The Mots, save Mol. Hood, S have not seen, or better visited as yet. Our local Botanists who have been through the State, hold different opinions - and I have no reason to dispute their word. In California all is interesting, every region is peculiar and Tich in its avay.



BISHOP SCOTT ACADEMY

J.W HILL, M.D PRINCIPAL.

Portland, Oregon. 189

Besieles, when one has reached the age of 62 he is no more inclined to roam much about.

Mor. Horvel is worthing hard on his manual of the plants of Oregon.

With due regards

Jours

Jours

Mith due regards

Jours

Jours

Mith due regards

Journ

Journ

Mith due regards

Journ

Journ

Journ

Mith due regards

Journ

Jou

201 Corner 22 a N. St.

